Argyle Municipal Electric Utility

100 E. Milwaukee Street • Argyle, Wi. 53504-0264 • Phone (608)543-3335 • Fax: (608)543-3272

February 16, 2001

Jim Loock, Chief Electric Engineer **Public Service Commission** 610 N. Whitney Way P.O. Box 7854 Madison, WI 53707-7854

RE:

In the Matter of Filing Plans for Appropriate Inspection and

Maintenance, PSC Rule 113.0607.

Dear Mr. Loock:

Enclosed for filing are 3 copies of Argyle Municipal Electric Utility's Preventative Maintenance Plan detailing inspection maintenance schedules, condition rating criteria, corrective action schedules, record keeping procedures and report filing schedules as documented in this rule.

Very truly yours,

Landall Marle

Randall Martin Superintendent

Enclosures

Electric Division

PREVENTATIVE MAINTENANCE PLAN

ARGYLE MUNICIPAL ELECTRIC UTILITY

FILING DEADLINE FEBRUARY 1, 2001

February 16, 2001

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This plan was prepared by the MEUW work group for PSC Rule 113.0607 for use by the 82 municipal electric utilities in Wisconsin and endorsed by PSC staff as meeting the requirements of Rule PSC 113.0607.

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I. Preventative Maintenance Plan

The PSC 113.0607 rule reads:

Appropriate inspection and maintenance: system reliability.

- (1) PREVENTATIVE MAINTENANCE PLAN. Each utility or other person subject to this chapter, including persons who own electric generating facilities in this state who provide service to utilities with contracts of five years or more, shall develop and have in place its own preventative maintenance plan. This section is applicable to electric generating facilities as set forth at s. 194.491(5)(a)(1), Stats. Each plan shall include, among other things, appropriate inspection, maintenance and replacement cycles where applicable for overhead and underground distribution plant, transmission, generation¹, and substation facilities.
- (2) CONTENTS OF THE PLAN. (a) *Performance standard*. The Preventative Maintenance Plan shall be designed to ensure high quality, safe, and reliable service, considering: cost, geography, weather, applicable codes, national electric industry practices, sound engineering judgment and experience.
- 1 PSC staff interpretation is that generation applies to individual generators equal to or greater than 50 MW.

II. Inspection Schedule and Methods:

The purpose of this plan is to maintain or improve the electrical system reliability with the objective of increased municipal loyalty and satisfaction from our constituents. The goals are to meet and exceed the schedules established in this plan.

Exception reporting (inspected equipment not in good condition) will be the method of documentation on all inspection forms.

The scope of this plan is traditional and uses proven maintenance techniques. Unique operating and maintenance philosophies have not been considered. Also, manufacturer defects will be dealt with as they are communicated to this utility.

EVERY

SCHEDULE:	MONTHLY	ANNUAL	5 YEARS
Transmission (□69Kv and above)		X	X
Substations	X	X	
Distribution (OH & UG)			X

The inspection of Distribution facilities will be by individual substation circuits on a 5-year cycle such that the entire system will be inspected every 5 years. Inspector instructions for inspecting all facilities and forms are included with the plan.

METHODS: Five criteria groups will be used to complete the inspection of all facilities.

- 1. <u>IR</u> infrared thermography used to find poor electrical connections and/or oil flow problems in equipment.
- 2. <u>RFI</u> Radio Frequency Interference, a byproduct of loose hardware and connections, is checked using an AM radio receiver.
- 3. <u>SI</u> structural integrity of all supporting hardware including poles, crossarms, insulators, structures, bases, foundations, buildings, etc.
- 4. <u>Clearance</u> refers to proper spacing of conductors from objects, trees and other utility cables.
- 5. <u>EC</u> equipment condition on non-structural components such as circuit breakers, transformers, regulators, reclosers, relays, batteries, capacitors, etc.

III. Condition Rating Criteria:

This criterion, as listed below, establishes the condition of a facility and also determines the repair schedule to correct deficiencies.

- 0) Good condition
- 1) Good condition but aging
- 2) Non-critical maintenance required normally repair within 12 months
- 3) Priority maintenance required normally repair within 90 days
- 4) Urgent maintenance required report immediately to the utility and repair normally within 1 week

IV. Corrective Action Schedule

The rating criteria as listed above determine the corrective action schedule.

V. Record Keeping

All inspection forms and records will be retained for a minimum of 10 years. The inspection form contains all of the required critical information i.e. inspection dates, condition rating, schedule for repair and date of repair completion.

VI. Reporting Requirements

A report and summary of this plan's progress will be submitted every two years with the first report due to the Commission by February 1, 2003. The report will consist of a letter documenting the percent of inspections achieved compared to the schedule and a description of maintenance achieved within the scheduled time allowance.

VII DISTRIBUTION - OVERHEAD INSPECTION GUIDE

STRUCTURE

- Pole Condition
- Pole Leaning
- Crossarm Condition
- Insulators, Deadend, Pin
- Excess Fill or Soil Removal
- Pole Steps
- Grounds Intact
- Ground Molding
- Down Guys
- Guy Markers
- Guy Bonding/Insulator
- Signage Location Number, Warning Sign
- Customer Equipment
- Conductor
- Tie Wires
- U Guard/Conduit Condition

EQUIPMENT

- Transformers
 - ✓ Oil Leaks
 - ✓ Bushing Condition
 - ✓ Grounding/Bonding
- Capacitors
 - ✓ Fuses Blown
 - ✓ Bushing Condition
 - ✓ Oil Leaks
 - ✓ Tank Bulged
 - ✓ Switches, Oil, Vacuum
 - ✓ Control Conduit/Wiring
 - ✓ Grounding/Bonding
- Switches GOAB, Inline, Disconnect
 - ✓ Insulator Condition
 - ✓ Operating Handle/Locks
 - ✓ Linkage
 - ✓ Grounding/Bonding
 - ✓ Switch Number
- Cutouts
 - ✓ Insulator Condition
 - ✓ Fuse Size Tag

VII DISTRIBUTION - OVERHEAD INSPECTION GUIDE (con't)

EQUIPMENT (CON'T)

- Arrestor
 - ✓ Insulator Condition
 - ✓ Connections
 - ✓ Ground Lead Disconnection
- Cable Terminators
 - ✓ Insulator Condition
 - ✓ Grounding/Bonding

CLEARANCES

- Ground Line
- Buildings, Bridges, Swimming Pool, Etc.
- Communications Facilities
- Fuel Tanks
- Other Electric Utilities
- Transmission Lines
- Over Streets, Roads, Alleys, Highways
- Tree Trimming
 - ✓ Clearance From Line
 - ✓ Vines on Poles
 - ✓ Danger Trees

INFRARED SCAN

- Main Three-Phase Feeders
- Priority Overhead Transformer Banks
 - ✓ Bushing Connectors Primary
 - ✓ Bushing Connectors Secondary
 - ✓ General Tank Heating
- Current & Voltage Transformers if Applicable

RFI CHECK

• OH system with AM radio as each circuit is inspected

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-																Pole Steps	ဟ	<u></u>
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																Date Item Corrected		Ckt
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VIII DISTRIBUTION - UNDERGROUND INSPECTION GUIDE

STRUCTURAL (Exterior & Interior) Transformer, Primary Pedestal, Secondary Pedestal, Switchgear.

- Enclosure Condition
- Level/Leaning
- Security
- Grade/Accessibility (Shrubs, Customer Facilities, Fill/Excavation)
- Numbering
- Voids/Gaps
- Signage Location Number, Warning Sign
- Pad/Vault Condition

EQUIPMENT

- Transformers
 - ✓ Oil Leaks
 - ✓ Bushing Condition
 - ✓ Grounding/Bonding
 - ✓ Elbows
 - ✓ Arrestors
 - ✓ Feed-Through
 - ✓ Cable Condition
 - ✓ Secondary Connections
- Primary Pedestals
 - ✓ Elbows
 - ✓ Junction Condition
 - ✓ Grounding/Bonding
- Secondary Pedestals
 - ✓ Secondary Connections
- Switches URD Switchgear
 - ✓ Insulator Condition
 - ✓ Operating Handle Security
 - ✓ Linkage
 - ✓ Grounding/Bonding
 - ✓ Switch Number/Fuse Size & Number

INFRARED SCAN and RFI CHECK

- Main Three-Phase Feeders (Risers & Switchgear)
- Priority URD Transformer Banks
 - ✓ Bushing Connectors Primary
 - ✓ Bushing Connectors Secondary
 - ✓ General Tank Heating

															LOCATION	EQUIPMENT	MAP AREA	UNDERGROUND DISTRIBUTION INSPECTION FORM Date
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															- le	Fransformers, Leaks, Bushings, Grounding,Bonds,Elbows, Arrestors, Cable cond, Connections		YIVI Dan
	-			+												Primary Pedestals, Elbows, Grounding, Bonds,Junction cond.	EQUIPMENT	
1					1					Ī						Secondary Pedestals, Connections	Ä	
_		1	1							1						Switches, Signage, Insulators, Security, Linkage, Ground, Bonds		': (
-	-															Main Three Phase Feeders, Risers & Switchgear	IR / RFI Scan	
	+															Priority URD Transformers, Bushings and Tank heating	Scan	
																Rating Criteria 0) Good Condition 1) Good Condition but aging 2) Non-critical Maintenance Required 3) Priority Maintenance Required 4) Urgent Maintenace Required	COMMENTS	
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IX SUBSTATION - MONTHLY INSPECTION GUIDE

TRANSFORMER MAIN TANK:

- Oil in bushings
- Bushing and arrestor porcelain
 - ✓ Cracks or chips
 - ✓ Rust or dirt
- Oil leaks
 - ✓ Main tank
 - ✓ Sample valves
 - ✓ Radiators
- Radiator bank
 - √ warm on top, cool at bottom
- Tank pressure
- Tank oil level
- Temperature gauge
- Cooling fans

TRANSFORMER LTC or VOLTAGE REGULATORS:

- Tank oil level
- Drag hand positions
- Cabinet light
- Operation count
- Tank pressure
- Cabinet heater
- Cabinet contamination

TRANSMISSION CIRCUIT BREAKERS:

- OPEN/CLOSED indicator
- CHARGED/DISCHARGED indicator
- Cabinet light
- Cabinet heater
- Operations counter
- Bushings and supports
 - ✓ Cracks or chips
 - ✓ Rust or dirt
- Line and load side disconnect switches
 - ✓ Properly labeled
 - ✓ Aligned properly
- Handles grounded
- Emergency trip button
- Air / Oil compressors
- Air / Oil pressure gauge
- Spring operated mechanism
- Oil level gauge
- Tank oil leaks
- Reset switch
- Cabinet contamination
- Vents clean
- Gas pressures for GCBs

IX SUBSTATION - MONTHLY INSPECTION GUIDE (con't)

FEEDER CIRCUIT BREAKERS / RECLOSERS

- OPEN/CLOSED indicator
- CHARGED/DISCHARGED indicator
- Cabinet light
- Cabinet heater
- Operations counter
- Bushings and supports
 - ✓ Cracks or chips
 - ✓ Rust or dirt
- Line and load side disconnect switches
 - ✓ Labeled properly
 - ✓ Aligned properly
 - √ Handles grounded
- Emergency trip button
- Oil level gauge
- Tank oil leaks
- Reset switch
- Cabinet contamination
- Vents clean
- Gas pressures for GCBs

HIGH AND LOW VOLTAGE BUSS WORK:

- Bushing, insulator, arrestor, and support insulators
 - ✓ Chips or cracks
 - ✓ Rust or dirt
- Bird nests
- Potential transformers bushings
 - ✓ Cracks or chips
 - ✓ Rust or dirt
- Cable terminators
 - ✓ Leaking fluid
 - ✓ Cracks or chips

MANUAL SWITCHES:

- Properly labeled
- Ground connections
- Positioning and alignment
- Bushing and support insulators
 - ✓ Cracks or chips
 - ✓ Rust or dirt

MOTOR OPERATED SWITCHES:

- OPEN/CLOSED indicator
- Properly labeled
- Cabinet heater
- Operations counter

IX SUBSTATION - MONTHLY INSPECTION GUIDE (con't)

CONTROL HOUSE/MISCELLANEOUS:

- Clock displays proper time
- AC/DC load center breakers
- Room temperature
- Rodents
- Panels labeled properly
- Panel lights
- Annunciator panel
- Panel meters
- SCADA system RTU
- SCADA alarms
- Position indicators agree
- Relay target information
- Emergency contact directory & dial tone for phone
- Safety Equipment

BATTERY:

- Liquid levels
- Proper float voltage on charger and battery
- Specific gravity in pilot cell
- Personal Protective Equipment
- Connection corrosion
- Leaking cells
- Dated solution in eyewash station

YARD AND FENCE:

- Fire extinguisher charged
- Fence ground connections
- Fence secured
- Security and emergency lights
- Site base and grade
- Standing water
- Warning signs

MONTHLY S	SUBSTATION INSPECTION	N FORM
NSPECTED BY:		
DATE:		
SUBSTATION:		
TRANSFORMER MAIN TANK	RATING: 0 1 2 3 4	(Circle One)
inspected X	COMMENTS	DATE CORRECTED CORRECTED BY
Oil in Bushings		
Bushing and Arrestor		
Oil Leaks		
Main Tank		
Sample Valves		
Radiators		
Radiator Bank		
Tank Pressure		
Tank Oil Level		
Temperature Gauge		
Cooling Fans		
TRANSFORMER LTC or VOLTAGE REGULATORS	RATING: 0 1 2 3 4	(Circle One)
Tank Oil Level		
Drag Hand Positions		
Cabinet Light		
Operation Count		
Tank Pressure		
Cabinet Heater		
Cabinet Contamination		

MONTHLY SU	JB	STATION	INS	SPE	СТ	ION	FORM	
INSPECTED BY:						10.	1 017141	
DATE:								
SUBSTATION:	-							
HIGH VOLTAGE CIRCUIT BREAKER / CIRCUIT SWITCHER		RATING: 0	1	2	3	4	(Circle One)	
inspected	x	со	MMEN	ITS			DATE CORRECTED	CORRECTED
OPEN/CLOSED Indicator								
CHARGED/DISCHARGED Indicator								
Cabinet Light								
Cabinet Heater								
Operations Counter				***				
Bushings and Supports								
Line and Load Side Disconnect Switches								
Handles Grounded	T							
Emergency Trip Button								
Air Compressors - Air / Oil								
Air Pressure Gauge - Air / Oil								
Spring Operated Mechanism								
Oil Level Gauge	T							
Tank Oil Leaks								
Reset Switch								
Cabinet Contamination	\top							
Vents Clean	T							
Gas Pressures for GCBs							1	
	\top					·		
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INSPECTED BY:									
DATE:									
SUBSTATION:									
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FEEDER CIRCUIT BREAKER / RECLOSER		RATING:	0	1	2	3	4	(Circle One)	
inspected	x		CON	MMEN	ITS			DATE CORRECTED	CORRECTED BY
OPEN/CLOSED Indicator									
CHARGED/DISCHARGED Indicator									
Cabinet Light	\coprod							-	
Cabinet Heater									
Operations Counter	\coprod								
Bushings and Supports	\Box								
Line and Load Side Disconnect Switches	\coprod								
Emergency Trip Button	\sqcup								
Oil Level Gauge	\sqcup								
Tank Oil Leaks									
Reset Switch	\sqcup								
Cabinet Contamination	\sqcup								
Vents Clean	\vdash						 		
Gas Pressures for GCBs	\sqcup								
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MONTHLY SI	JB	STATIC	N	INS	PE	СТ	ION	FORM	
INSPECTED BY:									<u>-</u>
DATE:									
SUBSTATION:									
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HIGH & LOW VOLTAGE BUSS WORK		RATING:	0	1	2	3	4	(Circle One)	
inspected	х		COI	MMEN	ITS			DATE CORRECTED	CORRECTED BY
Bushing, Insulator, Arrestor, and Supports									
Bird Nests									
Transformer Bushings									
Cable Terminators									
MANUAL SWITCHES		RATING:	0	1	2	3	4	(Circle One)	
Properly Labeled									
Ground Connections									
Positioning and Alignment						_			
Bushings and Supports									
MOTOR OPERATED SWITCHES		RATING:	0	1	2	3	4	(Circle One)	
OPEN/CLOSED Indicator									
Proper Labeling									
Cabinet Heater									
Operations Counter									
locking criteria									

MONTHLY	SU	BSTATI	<u>ON</u>	IIN	SP	EC.	TIO	N FORM	
NSPECTED BY:									
ATE:									
SUBSTATION:									
ONTROL HOUSE/MISCELLANEOUS		RATING:	0	1	2	3	4	(Circle One)	
inspected	x		col	MMEN	NTS			DATE CORRECTED	CORRECTED BY
Clock Displays Proper Time									
AC/DC Load Center Breakers									
Room Temperature									
Rodents									
Panels Labeled Properly						_			
Panel Lights									
Annunciator Panel									
Panel Meters									
SCADA System RTU									
SCADA Alarms									
Position Indicators Agree		<u> </u>					·		
Relay Target Information									
Emergency Contact Directory & Dialtone for Phone									
Safety Equipment									
BATTERY		RATING:	0	1	2	3	4	(Circle One)	T
Liquid Levels									
Proper Float Voltage on Charger & Battery									
Specific Gravity in Pilot Cell									
Personal Protective Equipment									
Connection Corrosion	$\perp \perp$					·			
Leaking Cells									
Dated Solution in Eyewash Station									
	++						<u> </u>		
YARD & FENCE	11	RATING:	: 0	1	2	3	4	(Circle One)	
Fire Extinguisher Charged									
Fence Ground Connections	$\downarrow \downarrow$								
Fence Secured	1 1								
Security and Emergency Lights	1-1								
Site Base and Grade	1-1								+
Standing Water	\bot								
Warning Signs MEUW - Preventative Maintenance Plan For									1/

X Substation - Annual Inspection Guide

- Check equipment for level
- Check condition of concrete pads
- Perform oil and DGA analysis
- **Battery**
 - ✓ Intercell strap resistance ✓ Individual cell voltages

 - ✓ Cell specific gravity
- Nameplate legible
- Equipment paint condition
- Proper equipment ID labels
- IR / RFI scans and checks

ANNUAL SUBSTATION INSPECTION FORM

Date) 	spect	Inspected by					Substation		
		<u>ક</u> ા	JBSTAT	SUBSTATION INSPECTION CRITERIA	TION C	RITER	A		COMMENTS	MAINTENANCE	VANCE
EQUIPMENT LISTING	Check equipment for level	Check condition of concrete pads	Perform oil and DGA analysis	Battery checks - Intercell strap resistance, Individual cell voltages, Cell specific gravity	Nameplate legible	Equipment paint condition	Proper identification labels	IR / RFI scans and checks	Rating Criteria O) Good Condition 1) Good Condition but aging 2) Non-critical Maintenance Required 3) Priority Maintenance Required 4) Urgent Maintenace Required	Date Item Corrected	Corrected By
Transformer								-			
LTC or regulators											
High Voltage Breaker						1		\uparrow			
Feeder CBs / Reclosers											
						+	+	+			
			,					+			
							++				
Switches								\dagger			
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						-		-			
Control house battery					+	1		+			
Transmission line RFI								-		}	

XI TRANSMISSION - ANNUAL INSPECTION GUIDE

STRUCTURE

- Pole Condition
- Pole Leaning
- Crossarm Condition
- Insulators, Deadend, Pin
- Excess Fill or Soil Removal
- Pole Steps
- Grounds Intact
- Ground Molding
- Down Guys
- Guy Markers
- Guy Bonding/Insulator
- Signage Location Number, Warning Sign
- Customer Equipment
- Conductor
- Tie Wires

EQUIPMENT

- Switches GOAB, Disconnect
 - ✓ Insulator Condition
 - ✓ Operating Handle/Locks
 - ✓ Linkage
 - ✓ Grounding/Bonding
 - ✓ Switch Number
- Arrestor
 - ✓ Insulator Condition
 - ✓ Connections

CLEARANCES

- Ground Line
- Buildings, Bridges, Etc.
- Communications Facilities
- Fuel Tanks
- Other Electric Utilities
- Over Streets, Roads, Alleys, Highways
- Tree Trimming
 - ✓ Clearance From Line
 - ✓ Vines on Poles
 - ✓ Danger Trees

XI TRANSMISSION - ANNUAL INSPECTION GUIDE (con't)

RFI CHECK

- Splices
- Connectors
- Dead Ends
- Switches
- Structures

XII TRANSMISSION - 5 YEAR INSPECTION GUIDE

IR SCAN

- Splices
- Connectors
- Dead Ends
- Switches

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												LOCATION	MAP AREA
												Pole Condition/Leaning	
												Crossarm Condition	
												Insulators, DE, Pin	
												Soil Conditions	
												Pole Steps	ST
												Grounds Intact, Molding	25
												Down Guys and Markers	STRUCTURE
											 1	Guy Bond, Insulator	돐
												Signs, Loc#, Warning	'''
												Customer Equipment	
												Conductor and Ties	1
												RFI Check	
												Switches	EQUI
												Arresters	EQUIPMENT
							-				 \vdash	Tree Trimming	
												Ground Line Clearances	은
											\vdash	Building Clearances	CLEARANCE
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												Communication Clearance	Jm
												Rating Criteria O) Good Condition 1) Good Condition but aging 2) Non-critical Maintenance Required 3) Priority Maintenance Required Urgent Maintenace Required 4)	COMMENTS
<u> </u>												ted By	
						;						Date Item Corrected	

ANNUAL TRANSMISSION INSPECTION FORM

Date_

Inspected by_